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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	10/796,249
Filing Date	March 9, 2004
First Named Inventor	Shane S. Owara et al.
Group Art Unit	2171
Examiner Name	Richard L. Ellis
Attorney Docket Number	112056-0167

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
KL	1	4,570,217		Allen et al.	02-11-1986	
KL	2	5,163,131		Row et al.	11-10-1992	
KL	3	5,202,979		Hillis et al.	04-13-1993	
KL	4	5,278,979		Foster et al.	01-11-1994	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
KL	5	AKYUREK, SEDAT, <i>Placing Replicated Data to Reduce Seek Delays</i> , Department of Computer Science, University of Maryland, UMIACS-TR-91-121, CS-TR-2746, August 1991.
KL	6	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 th VLDB Conference, LA, CA 1988.
KL	7	CHAUDHURI, SURAJIT, ET AL., <i>Self-Tuning Technology in Microsoft SQL Server</i> , Data Engineering Journal 22, 2 1999 pp. 20-27.
KL	8	CHUTANI, SAILESH, ET AL., <i>The Episode File System</i> , In Proceedings of the USENIX Winter 1992.
KL	9	COYNE, ROBERT A., ET AL., <i>Storage Systems for National Information Assets</i> , Proc. Supercomputing 92, Minneapolis, Nov. 1992, pp. 626-633.
KL	10	FINLAYSON, ROSS S., ET AL., <i>Log Files: An Extended File Service Exploiting Write-Once Storage</i> Department of Computer Science, Stanford University, Report No. STAN-CS-87-1177, September 1987.
KL	11	GRAY, JIM, ET AL., <i>The Recovery Manager of the System R Database Manager</i> , ACM Computing Surveys, (13)2:223-242 1981.
KL	12	HECHT, MATTHEW S., ET AL. <i>Shadowed Management of Free Disk Pages with a Linked List</i> , ACM Transactions on Database Systems, 8/4, December 1983, pp. 503-514.
KL	13	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, August 1987.

Examiner Signature	/Kimberly Lovel/	Date Considered	12/09/2006
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Substitute for form 1448A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	2	of	3	Application Number	10/796,249
				Filing Date	March 9, 2004
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KL	14	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-062 1988.		
KL	15	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , ACM Trans. Computer System, 6(1), Feb. 1988 pp. 51-81.		
KL	16	KAZAR, MICHAEL LEON, <i>Synchronization and Caching Issues in the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-063.		
KL	17	KAZAR, MICHAEL L., ET AL., <i>DECORUM File System Architectural Overview</i> , USENIX Summer Conference, Anaheim, California, 1990.		
KL	18	KEMPER, ALFONS, ET AL., <i>Performance Tuning for SAP R/3</i> , Data Engineering Journal 22, 2 1999 pp. 33-40.		
KL	19	KENT, JACK ET AL., <i>Optimizing Shadow Recovery Algorithms</i> , IEEE Transactions on Software Engineering, 14(2): 155-168 , February 1988.		
KL	20	KISTLER, ET AL., <i>Disconnected Operation in the Coda File System</i> , ACM Transactions on Computer Systems, Vol. 10, No. 1, February 1992, pp 3-25.		
KL	21	LORIE, RAYMOND, A. <i>Physical Integrity in a Large Segmented Database</i> , ACM Trans. Database Syst., vol. 2, March 1977, pp. 91-104 .		
KL	22	OUSTERHOUT, JOHN ET AL., <i>Beating the I/O Bottleneck: A Case for Log-Structured File Systems</i> , Technical Report, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley, October 30, 1988.		
KL	23	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley 1987.		
KL	24	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17)3:109-16 Sept. 1988.		
KL	25	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master's Thesis for the Department of Science in Computer Science, September 2002.		

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Sheet	3	of	3	Filing Date	March 9, 2004
				First Named Inventor	Shane S. Owara et al.
				Group Art Unit	2171
				Examiner Name	Richard L. Ellis
				Attorney Docket Number	112056-0167

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KL	26	QUINLAN, SEAN, <i>A Cached WORM File System</i> , Software-Practice and Experience, 21(12):1289-1299 1991.		
KL	27	ROSENBLUM, MENDEL, ET AL., <i>The LFS Storage Manager</i> , Computer Science Division, Electrical Engineering And Computer Sciences, Univ. of CA, presented at Summer '90 USENIX Technical Conference, Anaheim, CA June 1990.		
KL	28	ROSENBLUM, MENDEL, ET AL. <i>The Design and Implementation of a Log-Structured File System</i> July 24, 1991 pp1-15.		
KL	29	ROSENBLUM, MENDEL, <i>The Design and Implementation of a Log-Structured File System</i> , 1992 pp. 1-93.		
KL	30	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> , In Proceedings of ACM Transactions on Computer Systems, (10):1:26-52, February 1992.		
KL	31	SCHIEFER, BERNI, ET AL., <i>DB2 Universal Database Performance Tuning</i> , Data Engineering Journal 22, 2 1999 pp. 12-19.		
KL	32	SELTZER, MARGO I., ET AL., <i>Journaling Versus Soft Updates: Asynchronous Meta-Data Protection in File Systems</i> , Proceedings of 200 USENIX Annual Technical Conference, 6/18-23/2000.		
KL	33	SHASHA, DENNIS, <i>Tuning Time Series Queries in Finance: Case Studies and Recommendations</i> , Data Engineering Journal 22, 2 1999 pp 41-47.		
KL	34	SIDEBOTHAM, BOB, <i>Volumes: The Andrew File System Data Structuring Primitive</i> , EEUG Conference Proceedings, Manchester, UK, Autumn 1986.		
KL	35	SUBRAMANIAN, MURALIDHAR, ET AL., <i>Performance Challenges in Object-Relational DBMSs</i> , Data Engineering Journal 22, 2 1999 pp 28-32.		
KL	36	WEIKUM, GERHARD, ET AL., <i>Towards Self-Tuning Memory Management for Data Servers</i> , Data Engineering Journal 22, 2 1999 pp 3-11.		
KL	37	WEST, MICHAEL, ET AL. <i>The ITC Distributed File System: Prototype and Experience</i> , Carnegie-Mellon University, Technical Report CMU-ITC-040, March 1985.		
KL	38	ZAYAS, EDWARD R., <i>AFS-3 Programmer's Reference: Architectural Overview</i> , Transarc Corporation, Pittsburgh, PA, 1.0 edition 1991.		

Examiner Signature	/Kimberly Lovel/	Date Considered	12/09/2006
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Complete If Known

Application Number	10/796,249
Filing Date	March 9, 2004
First Named Inventor	Shane S. Owara et al.
Group Art Unit	2171
Examiner Name	Richard L. Ellis

Sheet 1 of 4

Attorney Docket Number 112056-0167

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
KL		10/126,822		FEDERWISCH et al.		U.S. Patent Application filed April 19, 2002 entitled SYSTEM AND METHOD FOR CHECKPOINTING AND RESTARTING AN ASYNCHRONOUS TRANSFER OF DATA BETWEEN A SOURCE AND DESTINATION SNAPSHOT
KL		10/777,978		STEPHEN L. MANLEY		U.S. Patent Application filed February 12, 2004 entitled SYSTEM-INDEPENDENT DATA FORMAT IN A MIRRORED STORAGE SYSTEM ENVIRONMENT AND METHOD FOR USING THE SAME
KL		US2002/008 3037	A1	LEWIS et al.	06-27-2002	
KL		US2001/004 4807	A1	KLEIMAN et al.	11-22-2001	
KL		US2003/018 2313	A1	FEDERWISCH et al.	09-25-2003	
KL		US2004/003 0822	A1	RAJAN et al.	02-12-2004	
KL		US2002/017 5938	A1	HACKWORTH	11-28-2002	
KL		US2003/018 2325	A1	MANLEY et al.	09-25-2003	
KL		US2002/011 2022	A1	KAZAR et al.	08-15-2002	
KL		US2002/011 6593	A1	KAZAR et al.	08-22-2002	
KL		US2003/018 2322	A1	MANLEY et al.	09-25-2003	
KL		US2003/018 2312	A1	CHEN et al.	09-25-2003	
KL		US2003/018 2330	A1	MANLEY et al.	09-25-2003	
KL		6,574,591	B1	KLEIMAN et al.	06-03-2003	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
KL		WO	2004/01552 1	A3	PAWLOWSKI et al.	02-19-2004		

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KL	5,485,579			HITZ et al.	01-16-1996	
KL	5,802,366			ROW et al.	09-01-1998	
KL	5,931,918			ROW et al.	08-03-1999	
KL	5,941,972			HOESE et al.	08-24-1999	
KL	6,065,037			HITZ et al.	05-16-2000	
KL	6,425,035	B2		HOESE et al.	07-23-2002	
KL	5,511,177			KAGIMASA et al.	04-23-1996	
KL	5,897,661			BARANOVSKY et al.	04-27-1999	
KL	6,185,655	B1		PEPING	02-06-2001	
KL	6,606,690	B2		PADOVANO	08-12-2003	
KL	5,819,292			HITZ et al.	10-06-1998	
KL	5,948,110			HITZ et al.	09-07-1999	
KL	5,963,962			HITZ et al.	10-05-1999	
KL	6,038,570			HITZ et al.	03-14-2000	
KL	6,119,244			SCHOENTHAL et al.	09-12-2000	
KL	6,138,126			HITZ et al.	10-24-2000	

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KL		"NETWORK APPLIANCE ENDS NAS/SAN WAR" by COMPUTERWIRE, http://www.theregister.co.uk/content/63/27368.html ; posted on February 10, 2002		
KL		CALLAGHAN B. "NFS Version 3 Protocol Specification", Request for Comments (RFC) 1813 June 1995		
KL		LU, Y. "Performance Study of iSCSI-Based Storage Subsystems", IEEE Communications Magazine, pp. 76-82, August 2003		
KL		Celerra File Server Architecture for High Availability, EMC2 where information lives, August 1999, pp. 1-7.		
KL		International Search Report for International Application No. PCT/US03/23661 filed on July 28, 2003, three pages, International Search Report mailed March 9, 2004.		
KL		Maintenance Procedures ND (8C) nd-network disk control February 1985		
KL		Misc. Reference Manual Pages ND (4P) nd-network disk driver 26 July 1985		
KL		Asante EN/SC Adapter Family Installation Guide May 1994		
KL		Asante Desktop EN/SC Adapters User's Manual April 1996		
KL		Performance Without Compromise: The Virtual Storage Architecture 1997		
KL		DAVID HITZ et al. TR3002 File System Design for a NFS File Server Appliance published by Network Appliance, Inc.		

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